RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09|922,418

Source: IFW016

Date Processed by STIC: 6/14/06

ENTERED

IFW16

RAW SEQUENCE LISTING   DATE: 06/14/2006
PATENT APPLICATION: **US/09/922,418**   TIME: 10:35:29

Input Set : **N:\RJAVED\09922418.txt**
Output Set: **N:\CRF4\06142006\I922418.raw**

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 3 <110> APPLICANT: Masters, David B.
 5 <120> TITLE OF INVENTION: Devices Including Protein Matrix Materials And Methods Of
Making And
 6       Using Thereof
 8 <130> FILE REFERENCE: 45795.23.1
10 <140> CURRENT APPLICATION NUMBER: US 09/922,418
11 <141> CURRENT FILING DATE: 2001-08-03
13 <160> NUMBER OF SEQ ID NOS: 21
15 <170> SOFTWARE: PatentIn version 3.3
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 59
19 <212> TYPE: PRT
20 <213> ORGANISM: Artificial
22 <220> FEATURE:
23 <223> OTHER INFORMATION: synthetic construct similar to silk protein
25 <400> SEQUENCE: 1
27 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
28 1               5                   10                  15
31 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
32             20                  25                  30
35 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
36          35                  40                  45
39 Gly Ala Gly Ala Gly Ser Gly Ala Ala Gly Tyr
40       50                  55
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 6
45 <212> TYPE: PRT
46 <213> ORGANISM: Artificial
48 <220> FEATURE:
49 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk protein
51 <400> SEQUENCE: 2
53 Gly Ala Gly Ala Gly Ser
54 1               5
57 <210> SEQ ID NO: 3
58 <211> LENGTH: 71
59 <212> TYPE: PRT
60 <213> ORGANISM: Artificial
62 <220> FEATURE:
63 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk protein
64       containing RGD sequence from fibronectin.
66 <400> SEQUENCE: 3
68 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
```

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69 1            .              5                      10                  15
72 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
```

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73              20                25                30
76 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
77          35                40                45
80 Gly Ala Gly Ala Gly Ser Gly Ala Ala Val Thr Gly Arg Gly Asp Ser
81      50                55                60
84 Pro Ala Ser Ala Ala Gly Tyr
85 65                70
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 74
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial
93 <220> FEATURE:
94 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk protein
95         containing sequence from laminin protein.
97 <400> SEQUENCE: 4
99 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
100 1            5                10                15
103 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
104          20                25                30
107 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
108          35                40                45
111 Gly Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys Val
112      50                55                60
115 Ala Val Ser Ala Gly Pro Ser Ala Gly Tyr
116 65                70
119 <210> SEQ ID NO: 5
120 <211> LENGTH: 73
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial
124 <220> FEATURE:
125 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk protein
126         containing a different sequence from laminin protein.
128 <400> SEQUENCE: 5
130 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
131 1            5                10                15
134 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
135          20                25                30
138 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
139          35                40                45
142 Gly Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys Val
143      50                55                60
146 Ala Val Ser Gly Pro Ser Ala Gly Tyr
147 65                70
150 <210> SEQ ID NO: 6
151 <211> LENGTH: 71
152 <212> TYPE: PRT
153 <213> ORGANISM: Artificial
155 <220> FEATURE:
156 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk protein
```

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157      containing the RGD sequence from fibronectin.
159 <400> SEQUENCE: 6
161 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
162 1               5                  10                  15
165 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
166             20                  25                  30
169 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
170         35                  40                  45
173 Gly Ala Gly Ala Gly Ser Arg Tyr Val Val Leu Pro Arg Pro Val Cys
174     50                  55                  60
177 Phe Glu Lys Ala Ala Gly Tyr
178 65                  70
181 <210> SEQ ID NO: 7
182 <211> LENGTH: 20
183 <212> TYPE: PRT
184 <213> ORGANISM: Artificial
186 <220> FEATURE:
187 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
elastin
188      protein.
190 <400> SEQUENCE: 7
192 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
193 1               5                  10                  15
196 Pro Gly Val Gly
197             20
200 <210> SEQ ID NO: 8
201 <211> LENGTH: 52
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial
205 <220> FEATURE:
206 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
207      elastin proteins.
209 <400> SEQUENCE: 8
211 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
212 1               5                  10                  15
215 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
216             20                  25                  30
219 Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala
220         35                  40                  45
223 Gly Ala Gly Ser
224     50
227 <210> SEQ ID NO: 9
228 <211> LENGTH: 82
229 <212> TYPE: PRT
230 <213> ORGANISM: Artificial
232 <220> FEATURE:
233 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
234      elastin proteins.
236 <400> SEQUENCE: 9
238 Gly Ala Ala Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
```

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239 1                   5                   10                  15
242 Val Gly Val Pro Gly Val Gly Val Ala Ala Gly Tyr Gly Ala Gly Ala
243             20                  25                  30
246 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
247         35                  40                  45
250 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
251     50                  55                  60
254 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
255 65                  70                  75                  80
258 Gly Ser
262 <210> SEQ ID NO: 10
263 <211> LENGTH: 111
264 <212> TYPE: PRT
265 <213> ORGANISM: Artificial
267 <220> FEATURE:
268 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
269         elastin proteins.
271 <400> SEQUENCE: 10
273 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
274 1                   5                   10                  15
277 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
278             20                  25                  30
281 Gly Ala Gly Ser Gly Ala Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly
282         35                  40                  45
285 Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
286     50                  55                  60
289 Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val
290 65                  70                  75                  80
293 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
294             85                  90                  95
297 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
298             100                 105                 110
301 <210> SEQ ID NO: 11
302 <211> LENGTH: 88
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial
306 <220> FEATURE:
307 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
308         elastin proteins.
310 <400> SEQUENCE: 11
312 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
313 1                   5                   10                  15
316 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
317             20                  25                  30
320 Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala
321         35                  40                  45
324 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
325     50                  55                  60
328 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
```

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329 65                    70                75                80
332 Gly Ser Gly Ala Gly Ala Gly Ser
333                   85
336 <210> SEQ ID NO: 12
337 <211> LENGTH: 108
338 <212> TYPE: PRT
339 <213> ORGANISM: Artificial
341 <220> FEATURE:
342 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
343       elastin proteins.
345 <400> SEQUENCE: 12
347 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
348 1               5                   10                  15
351 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
352               20                  25                  30
355 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
356           35                  40                  45
359 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala
360     50                  55                  60
363 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
364 65                  70                  75                  80
367 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
368               85                  90                  95
371 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
372               100                 105
375 <210> SEQ ID NO: 13
376 <211> LENGTH: 128
377 <212> TYPE: PRT
378 <213> ORGANISM: Artificial
380 <220> FEATURE:
381 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
382       elastin proteins.
384 <400> SEQUENCE: 13
386 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
387 1               5                   10                  15
390 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
391               20                  25                  30
394 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
395           35                  40                  45
398 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
399     50                  55                  60
402 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
403 65                  70                  75                  80
406 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
407               85                  90                  95
410 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
411           100                 105                 110
414 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
415           115                 120                 125
```

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PATENT APPLICATION: US/09/922,418   TIME: 10:35:30

Input Set : **N:\RJAVED\09922418.txt**
Output Set: **N:\CRF4\06142006\I922418.raw**

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY   DATE: 06/14/2006
PATENT APPLICATION: US/09/922,418   TIME: 10:35:30

Input Set : N:\RJAVED\09922418.txt
Output Set: N:\CRF4\06142006\I922418.raw